Chapter 2.1-2.4 Quiz Review

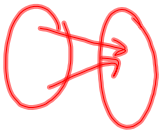
Is it a function?
Is it one-to-one?
Domain?
Range?

$f(x) = \frac{2}{x-8}$

$x-8 \neq 0$
$x \neq 8$

D: $\mathbb{R}$; $x \neq 8$
Rang: $\mathbb{R}$ $f(x) \neq 0$

Mapping
Graph (note sheet)
Set of ordered pairs



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$f(x) = 3x^2 + 5x$

$f(2) = 3(2)^2 + 5(2)$
$12 + 10$
$= 22$

standard form $Ax + By = C$
slope-intercept form $y = mx + b$
point-slope form $y - y_1 = m(x - x_1)$

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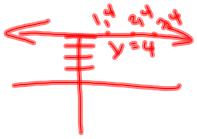
Graph using intercepts $(0, \_)$ $(\_, 0)$

Graph using slope and y-intercept



Slope $m = \frac{y_2 - y_1}{x_2 - x_1}$

Parallel lines same slope

Perpendicular lines opposite reciprocal

Vertical lines No slope $(2, 4)$ eqn vertical $x = 2$

Horizontal lines Slope = Zero horiz. $y = 4$

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Write an equation given certain information

Variation word problems

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